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PCT #4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/537,900 Confirmation No. 9402
Applicant : Jablonski
Filed : June 6, 2005
Examiner : Not assigned
For : Optical Pulse Lasers
Docket No. : 148-02
Customer No.: 23713

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INFORMATION DISCLOSURE STATEMENT

Sir:

The Examiner is respectfully requested to consider the references, copies enclosed, which may qualify as prior art. For the Examiner's convenience, the references are listed on the attached Patent and Trademark Office form PTO-1449. Pursuant to 37 C.F.R. 1.98(a)(2)(ii), copies of cited U.S. patents and U.S. patent application publications are not included, but will be provided upon request.

This information is cited in a spirit of forthrightness and cooperation to enable the applicants to obtain that measure of protection for the invention to which there is entitlement. However, no representation is made that the listed art actually qualifies as prior art under the patent statute and the mere use of PTO-1449 is not an admission that all listed references are prior art. No representation is made that applicants know of the best art.

It is believed that this submission does not require the payment of a fee. If this is not correct, please charge any required fee to deposit account no. 07-1969.

Respectfully submitted,

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December 28, 2005

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Attorney Docket No.: 148-02

Application No. : 10/537,900
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Substitute for form [redacted]O, based on [redacted]B/08A and 08B	Application Num[redacted]	[redacted],900
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date	08/[redacted]/2005
	First Named Inventor	Jablonski
	Art Unit	Not assigned
	Examiner Name	Not assigned
	Attorney Docket Number	148-02

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No.[1]	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
	1	6,749,826	6/15/2004	Tillotson et al.	
	2	6,455,021	09/24/2002	Saito	
	3	6,413,487	07/02/2002	Resasco et al.	
	4	6,361,861	03/26/2002	Gao et al.	
	5	6,350,488	02/26/2002	Lee et al.	
	6	6,333,016	12/25/2001	Resasco et al.	
	7	6,331,690	12/18/2001	Yudasaka et al.	
	8	6,331,262	12/18/2001	Haddeon et al.	
	9	6,331,209	12/18/2001	Jang et al.	
	10	6,303,904	10/16/2001	Iwatsubo	
	11	6,183,714	02/06/2001	Smalley et al.	
	12	6,023,479	02/08/2000	Thony et al.	
	13	5,844,932	12/01/1998	Thony et al.	
	14	5,812,308	09/22/1998	Kafka et al.	
	15	5,802,084	09/01/1998	Bowera et al.	
	16	5,764,679	06/09/1998	Shen et al.	
	17	5,753,088	05/19/1998	Olk	
	18	5,689,519	11/18/1997	Fermann et al.	
	19	5,502,737	03/26/1996	Chartier et al.	
	20	5,482,601	01/09/1996	Ohshima et al.	
	21	5,408,480	04/18/1995	Hemmati	
	22	5,119,382	06/02/1992	Kennedy et al.	
	23	4,665,524	05/12/1987	Cotter	
	24	4,597,638	07/01/1986	Chemla et al.	
	25	4,435,809	03/06/1984	Tsang et al.	
	26	4,191,931	03/04/1980	Kuppenheimer	
	27	4,019,156	04/20/1977	Fountain et al.	
	28	3,978,429	08/31/1976	Ippen et al.	
	29	2005/069,669	03/31/2005	Sakaibara et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No.[1]	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T[2]
	30	WO 03/034142	04/24/2003	Sakakibara et al.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form [redacted]O, based on [redacted]3/08A and 08B	Application Num[redacted]	[redacted],900
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date	06/06/2005
	First Named Inventor	Jablonski
	Art Unit	Not assigned
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	Attorney Docket Number	148-02

	31	JP 200248392	10/04/1990	Yamamoto		
	32	JP 2000223012	08/11/2000	Takigawa et al.		
	33	JP 2003121892	04/23/2003	Sakakibara et al.		
	34	JP 2003248251	09/05/2003	Sakakibara et al.		
	35	JP 2004046084	02/12/2004	Sakakibara et al.		
	36	JP 2004280028	10/07/2004	Sakakibara et al.		

NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No.[1]	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
	37	Ando, T (1997) "Excitation in Carbon Nanotubes," *J. Phys Soc. Jpn.* 66:1066-	
	38	Brabec et al. (1992) "Kerr Lens Mode0Locking," *Optics Letters* 17:1292-1294	
	39	Chen et al. (2002) "Ultrafast Optical Switch Properties of Single-Wall Carbon Nanotube Polymer Composites," *CLEO* pp.660, Paper CFH4	
	40	Chen et al. (2002) "Ultrafast Optical Switch Properties of Single-Wall Carbon Nanotube Polymer Composites at 1.55μm," *Appl. Phys. Lett.* 81(6):975-977	
	41	Collins et al. "Optical Switching of Single-Wall Carbon Nanotube Absorption Through Fled Gating,"	
	42	Doran et al. (1988) "Non-Linear Optical Loop Mirror," *Opt. Lett.* 14:56-58	
	43	DeSouza et al. (1993) "Saturable Absorber Modelocked Polarisation Maintaining Erbium-Doped Fibers," *Electron. Lett.* 29:447-449	
	44	Fermann, M.E. (1994) "Ultrashort-Pulse Sources Based on Single-Mode Rare0Earth-Doped Fibers,"*J. Appl. Phys. B* B58:197-209	
	45	Fermann et al. (1990) "Nonlinear Amplifying Loop Mirror," *Opt. Lett.* 15:752-754	
	46	Ichida et al. (2002) "Coulomb Effects on the Fundamental Optical Transition in Semiconducting Single-Walled Carbon Nanotubes: Divergent Behavior in the Small Diameter Limit," *Phys. Rev.* B65:	
	47	Ichida et al. (1999) "Excitation Effects of Optical Transitions in Single-Walled Carbon Nanotubes," *J. Phys. Soc. Jpn.* 68:3131-3133	
	48	Ippen et al. (1989) "Additive Pulse Modelocking," *J. Opti. Soc. America B, Opt. Phys.* 6:1736-1745	
	49	Kataura et al. (1999) "Optical Properties of Single-Walled Carbon Nanotubes," *Synthetic Metals* 103:2555-2558	

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Substitute for form [redacted]O, based on [redacted]B/08A and 08B	Application Num[redacted]	[redacted],900
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date	08/06/2005
	First Named Inventor	Jablonski
	Art Unit	Not assigned
	Examiner Name	Not assigned
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Examiner Initial*	Cite No.[1]	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
	50	Kataura et al. (2000) "Diameter Control of Single-Walled Carbon Nanotubes," *Carbon* 38:1691-1697	
	51	Keller et al. (1992) "Solid-State Low-Loss Intracavity Saturable Absorber for Nd:YLF Lasers: An Antiresonant Semiconductor Fabry-Perot Saturable Absorber," *Opt. Lett.* 17(7):505-507	
	52	Keller et al. (1996) "Semiconductor Saturable Absorber Mirrors (SESSAM's) for Femtosecond to Nanosecond Pulse Generation in Solid-State Lasers," *IEEE J. Select Topics Quant. Electron.* 2:435-453	
	53	Mark et al. (1989) "Femtosecond Pulse Generation in a Laser with Nonlinear External Resonator," *Opt. Lett.* 14:48-50	
	54	Maruyama et al. (2003) "Synthesis of Single-Walled Carbon Nanotubes with Narrow Diameter-Distribution from Fullerene," *Chem. Phys. Lett.* 375:553-559	
	55	Maruyama et al. (2002) "Low-Temperature Synthesis of High-Purity Single-Walled Carbon Nanotubes from Alcohol," *Chem. Phys. Lett.* 360:229-234	
	56	Matsas et al. (1992) "Selfstarting Passively Mode-Locked Fibre Ring Solution Laser Exploiting Nonlinear Polarisation Rotation," *Electron. Lett. 28:1391-1393*	
	57	Nishide et al. (2003) "High-Yield Production of Single-Wall Carbon Nanotubes in Notrogen Gas,"	
	58	Sakakibara et al. (2003) "Near-Infared Saturable Absorption of Sinlge-Wall Carbon Nanotubes Prepared by Laser Ablation Method," *Jpn. J. Appl. Phys.* 42:494-496	
	59	Set et al. (2003) "A Noise Suppressing Saturable Absorber at 1550 nm Based on Carbon Nanotube Technology," OFC'03, Atlanta, 23-28 March, Paper FL2	
	60	Set et al. (2003) "Mode-Locked Fiber Lasers Based on Saturable Absorber Incorporating Carbon Nanotubes," OFC'03, Atlanta, 23-28 March, Post Deadline Paper PD44	
	61	Set et al. (2003) "A Dual-Regime Mode-Locked/Q-Switched Laser Using a Saturable Absorber Incorporating Carbon Nanotubes (SAINT)," in Proc. CLEO'03, Baltimore, MD paper PDC-A13	
	62	Spence et al. (1991) "60-fsec Pulse Generation from a Self-Mode-Locked Ti: Sapphire Laser," *Opt. Lett.* 16:42-44	
	63	Tatsuura et al. (2003) "Semiconductor Carbon Nanotubes as Ultrafast Switching Materials for Optical Telecommunications," *Adv. Mater.* 15:534-537	
	64	Wildoer et al. (1998) "Electronic Structure of Atomically Resolved Carbon Nanotubes," *Nature* 391:59-62	
	65	Wong et al. (1997) "Self-Switching of Optical Pulses n Dispersion-Imbalanced Nonlinear Loop Mirrors," *Opt. Lett.* 22:1150-1152	

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